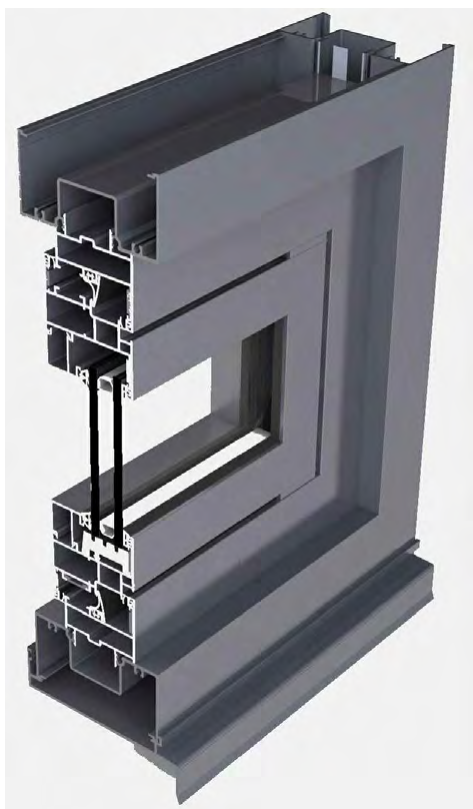


Max[™] TILT & TURN SASHES Max Framing System: MTNT - 1

Tilt & Turn Sash (Tilt First)



FEATURES:

- Quality German manufactured Roto Designo Hardware
- Concealed hinge hardware - minimal visible hardware
- Adaptor suits front, offset or centre glazed suites
- Tilt First - initial operation is tilt, then requires a key to open
- When in tilt position, complies with "kid's can't fly requirements"
- Open Inwards allows cleaning of the sash from inside
- Optional Turn Only (inwards)
- Optional Tilt only (inwards)
- Multi Locking around the sash for added security & windloads
- Screen to outside - better suited to 100 Centre Glaze & 150 Offset
- 130kg Sash weight with concealed hardware
- Capable of 3m x 1.3m Sashes
- As an unbroken product, principally designed for double glazed but can accept 13.52 - 26mm IGU's
- Bead accepts up to 48mm - whether acoustic IGUs or triple glazed

FABRICATION:

- Mitre cut
- Stainless Steel Chevron corners which are able to be glued for additional corner strength
- Corner staked & crimped - requires Sash crimp & specialist machining

PRODUCT APPLICATIONS:

- Large operable panels, larger than equivalent awning windows
- Ventilation where external obstructions prohibit Sashes opening out
- Security ventilation - Sash projects inwards & difficult to open from outside
- Acoustic applications, can take 18 - 28mm IGU's
- Accepts Operable blinds

LIMITATION:

- Sash height must exceed Sash width.
 - a tilt only option may be available in this condition
- Min Sash Height: 555 (590 daylight opening)
- Min Sash Width: 500 (590 daylight opening)
- Max Sash Width: 1300 (1335 daylight opening)
- 150kg sash weight

HARDWARE SELECTION:

Selecting the correct hardware for application is determined by many factors that change on a project by project basis. Careful consideration needs to be given to opening type, size & weight, wind loads, location within the building, security, ease of operation, budget, serviceability & aesthetic requirements.

Typical hardware is shown throughout our catalogues to depict opening types & function. There are a range of sash types available to cover a variety of applications. Once the opening type has been selected, it is the responsibility of the fabricator to determine hardware suitability with the hardware manufacturer, ensuring their selection meets project requirements.



St Vincent's Hospital HOBMT, NSW
MAX[™] Tilt & Turn windows

Max[™] TILT & TURN SASHES
Max Framing System: MTNT - 2
Extrusion ID

C8114
Max TNT Sash

C8105
TNT Bead 25mm Gap

C8104
TNT Bead 34mm Gap

C8103
TNT Bead 53.5mm Gap

C8100
Transmission Bar

C8110
Max TNT Sash Adaptor

C8106
Max TNT Retrofit Frame

C200R
25 x 11 Extruded Screen

C8140
Max 100 x 50 CDG Drained Transom

C8142
Max 100 x 50 FDG Drained Transom

C8141
Max 100 x 60 CDG Drained Transom

C8143
Max 100 x 60 FDG Drained Transom

Component ID

CH9818
RPVC filler

CH9819
4mm Captive seal

CH9821
Tilt & Turn seal

CH9820
Sash Seal

CH9815
Corner Chevron 13.9mm

CH9816
Corner Chevron 19mm

CH9822
Setting Block

CH810115 (15.5mm suit Sash)
CH8101523 (52.3mm suit Adaptor)
Cornerstake 12.9mm

CH8102273 (27.3mm suit Sash)
Cornerstake 17.3mm

CH9574
Shallow Watershed

CH9575
Deep Watershed

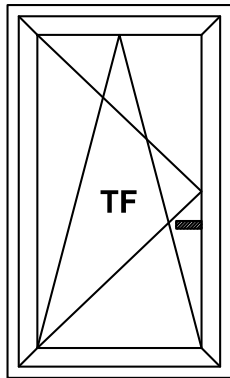
CH9830
Rotoline Tilt First handle with
spindle Key Locking as standard

CH9834
Eurogroove Strike & Insertable Cam Package
(extra to standard sash kits)

CH02040
Drain hood (suit C8106)

Rotoline Tilt First handle with spindle		
Ref #	Code	Finish
9	CH9830SVR	Silver Powdercoat
9	CH9830WHT	White Powdercoat
9	CH9830TSVR	Titanium Silver Plated

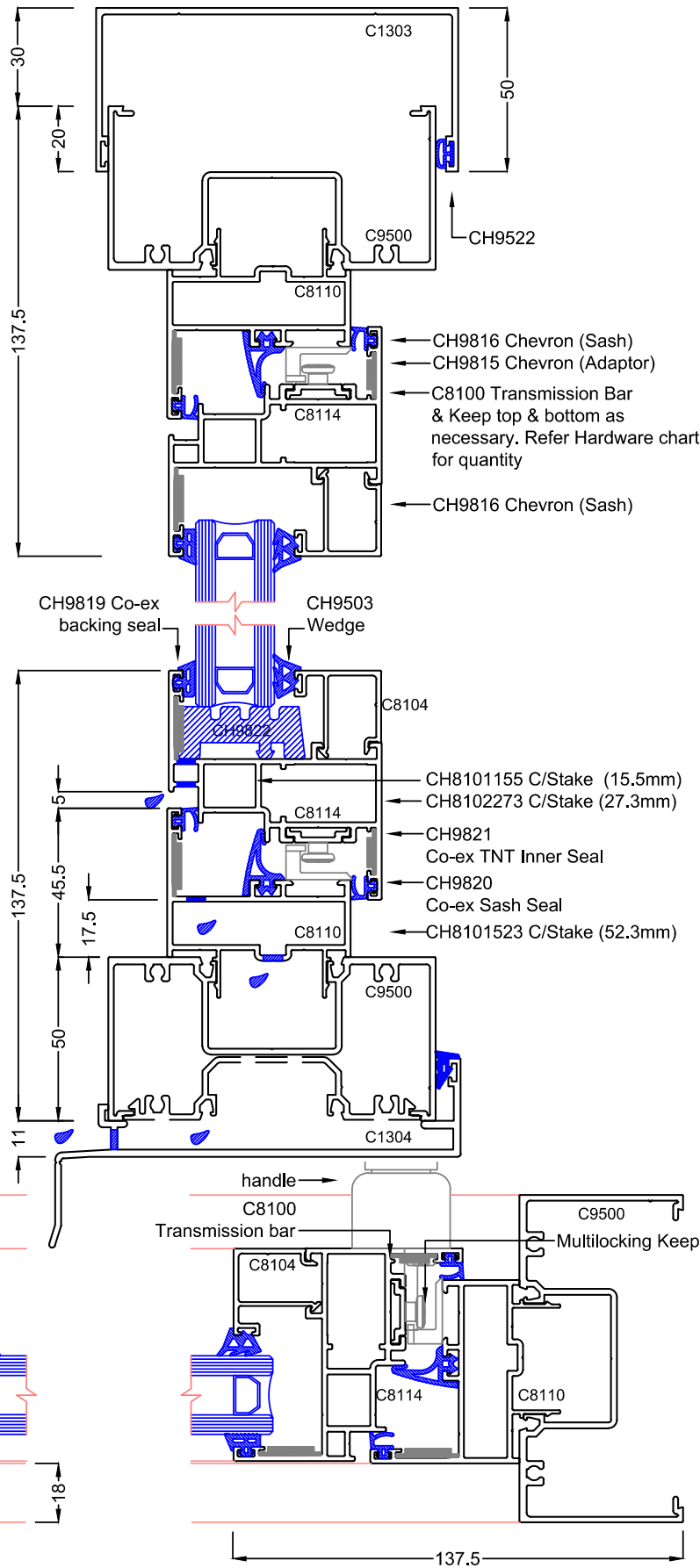
MaxTM TILT & TURN SASHES
Max Framing System: MTNT - 3
Tilt & Turn Sash (Tilt First)



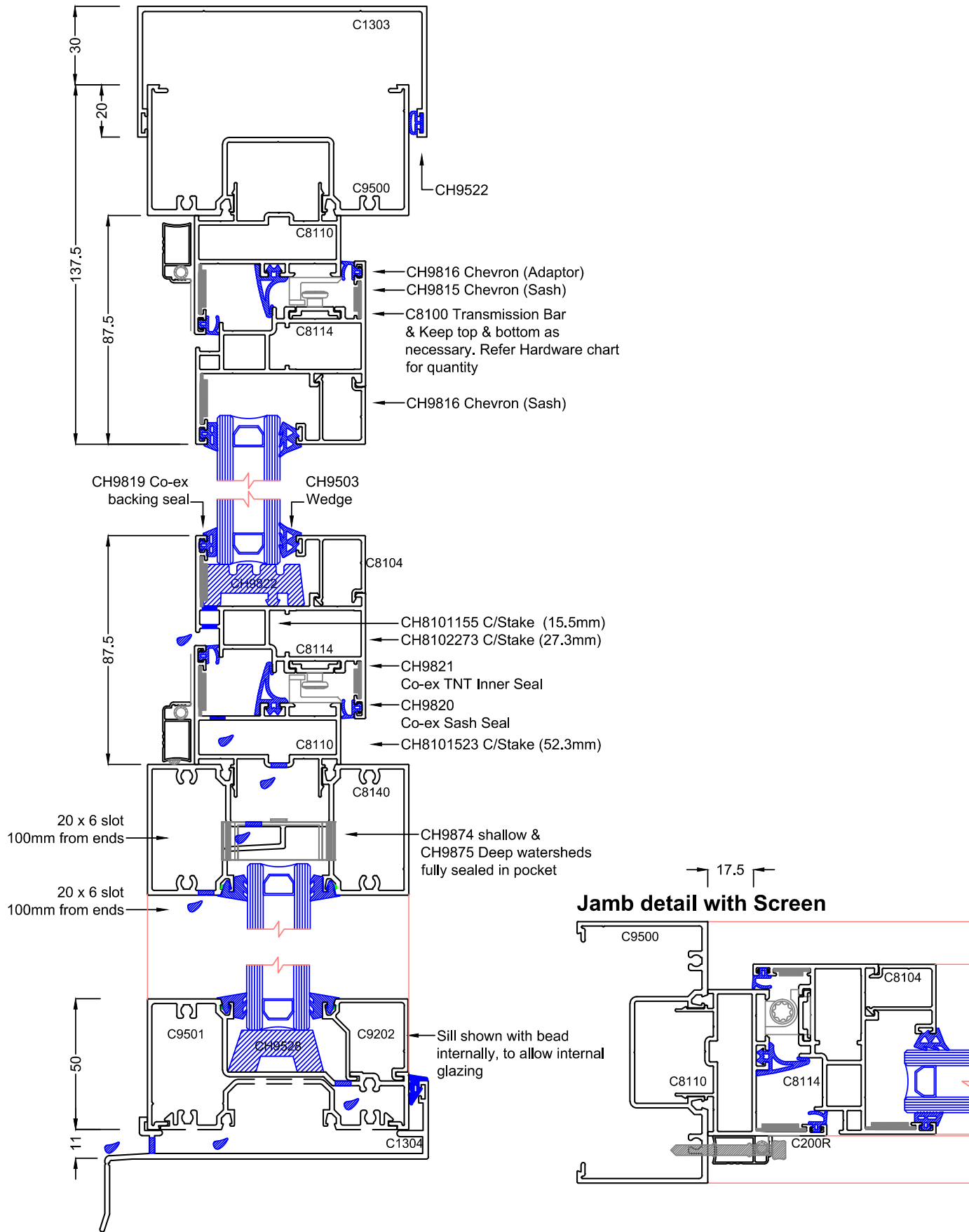
- Note:
- Maximum Sash weights generally are 150kg with concealed hardware. Refer Hardware specification
 - Heavier hardware options are available
 - handle Operated key locking
 - Initial tilt in, then key override to hinge as standard function
 - Max Height 3000mm
 - Max width 1200mm
 - Glass: 24-28mm IGU

Cutting			
C8110	Sash Adaptor	DOH + 25	MC
C8110	Sash Adaptor	DOW + 25	MC
C81114	Sash	DOH - 35	MC
C8114	Sash	DOW - 35	MC
	Bead	DOH - 175	
	Bead	DOW - 131	

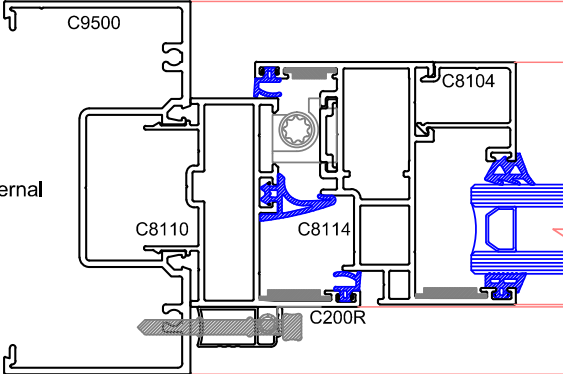
Tilt & Turn Sash in 100 CentreGlaze



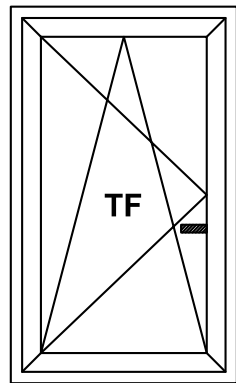
Tilt & Turn Sash in 100 CentreGlaze with drained Transom



Jamb detail with Screen



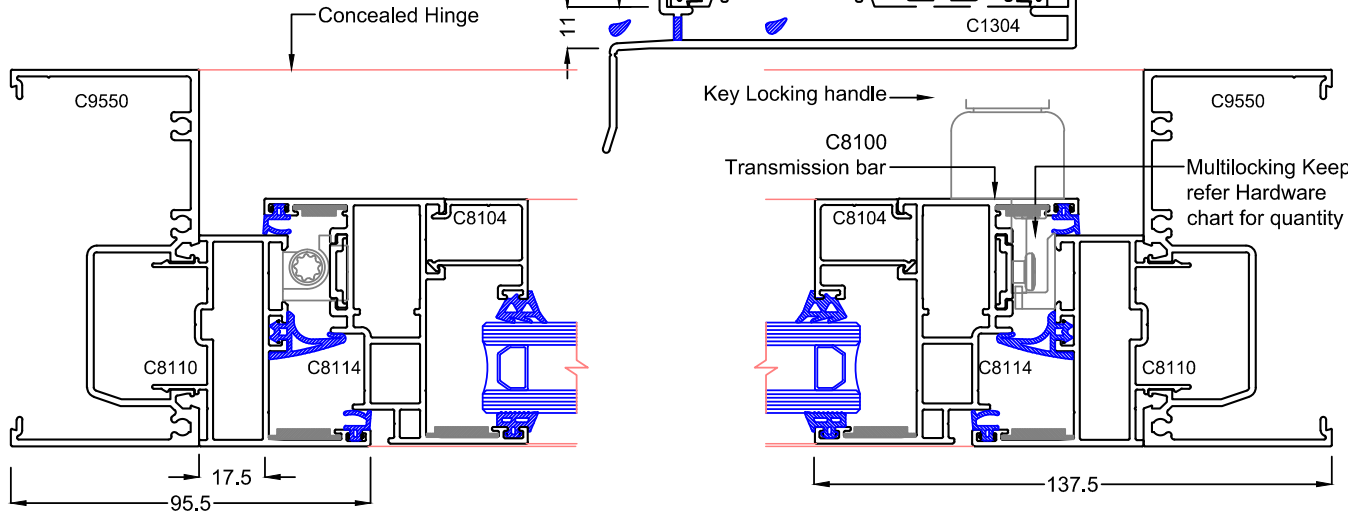
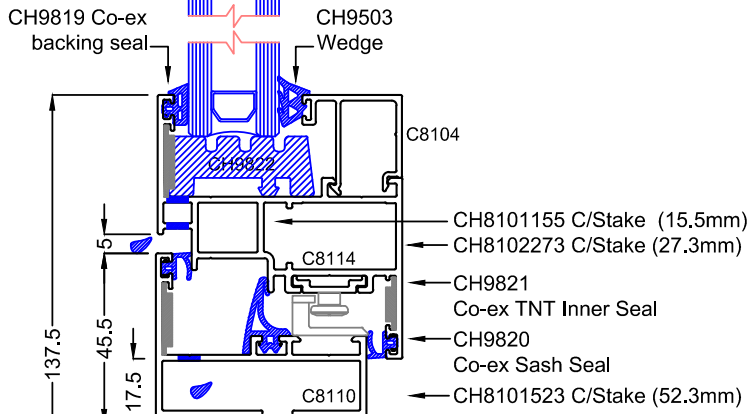
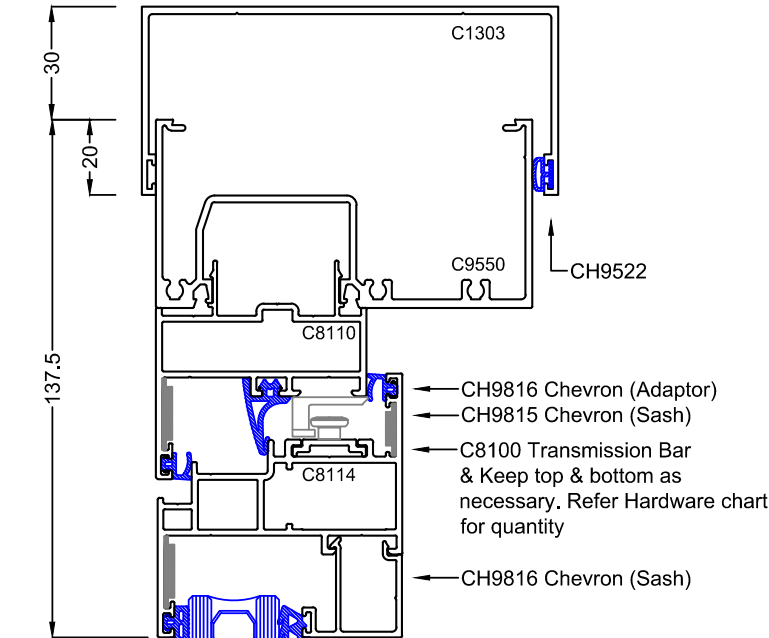
Max™ TILT & TURN SASHES **Max Framing System: MTNT - 4** **Tilt & Turn Sash (Tilt First)**



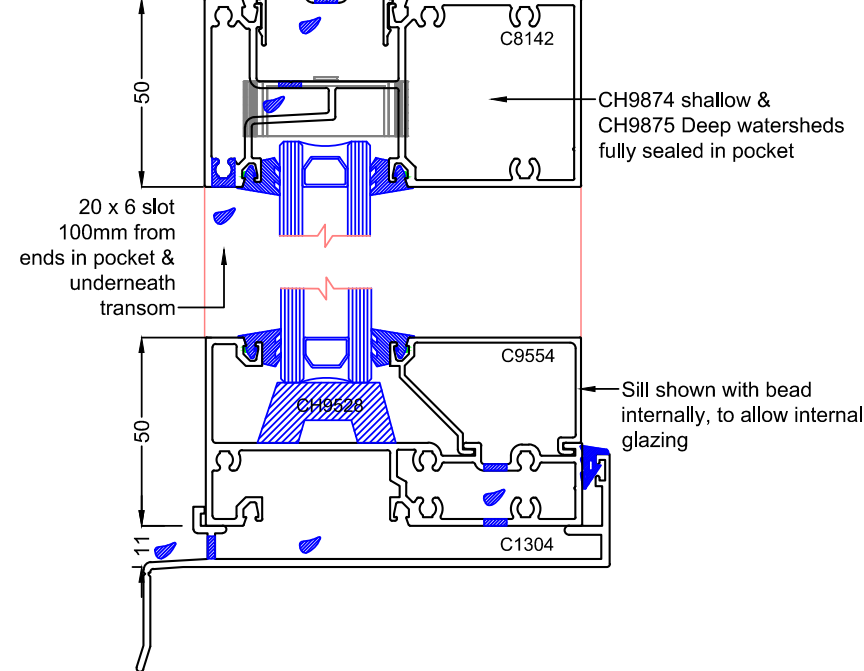
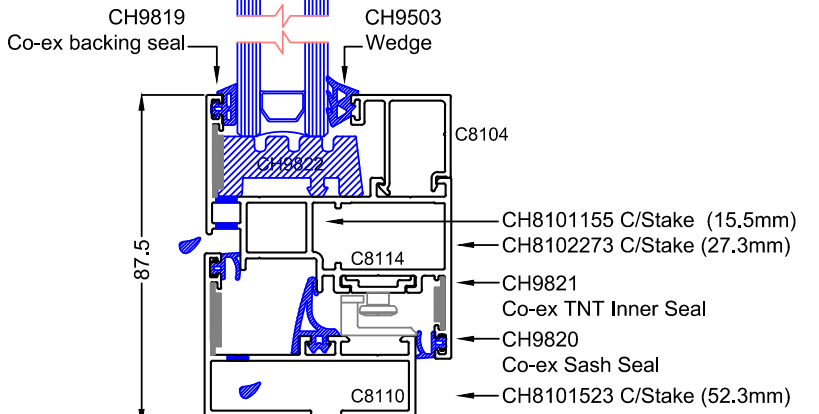
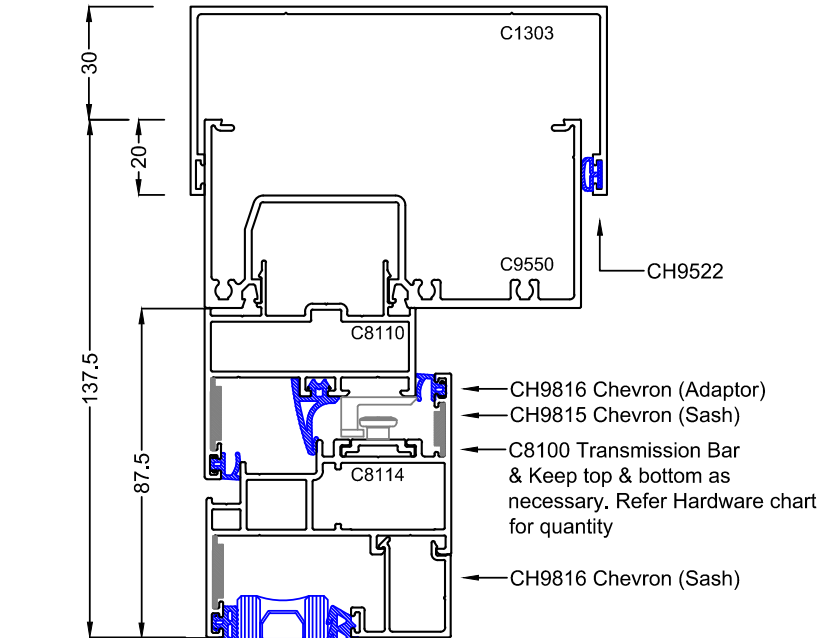
- Note:**
- Maximum Sash weights generally are 150kg with concealed hardware. Refer Hardware specification
 - Heavier hardware options are available
 - handle Operated key locking
 - Initial tilt in, then key override to hinge as standard function
 - Max Height 3000mm
 - Max width 1200mm
 - Glass: 24-28mm IGU

Cutting			
C8110	Sash Adaptor	DOH + 25	MC
C8110	Sash Adaptor	DOW + 25	MC
C81114	Sash	DOH - 35	MC
C8114	Sash	DOW - 35	MC
	Bead	DOH - 175	
	Bead	DOW - 131	

Tilt & Turn Sash in 100 Front Glaze



Tilt & Turn Sash in 100 Front Glaze with drained Transom



Note: Left Hand Sash depicted as viewed from Outside.
The hardware schematic view below however is viewed from Inside.



Ref #	Description
1	Designo TF Horizontal T&T Striker
2	Designo TF Tilt Lock Bolt
3	Designo TF Run up wedge
4	Encased Gearbox 7mm Spindle
5	Corner Drives (Euro Groove C)
6	Designo Sash Stay (suit size & hand)
7	Designo Tilt First Stay Guide (suit hand)
8	Centre Lock Corner Drive
9	Designo Corner Hinge
10	Designo Pivot Rest
11	Turn Restrictor
12	Locking Cam Insertable
13	Striker
14	Designo TF Scissor Stay when required
15	Rotoline TF handle (not part of package)
16	C8100 Transmission Bar (clear Anodised)
*	not part of package

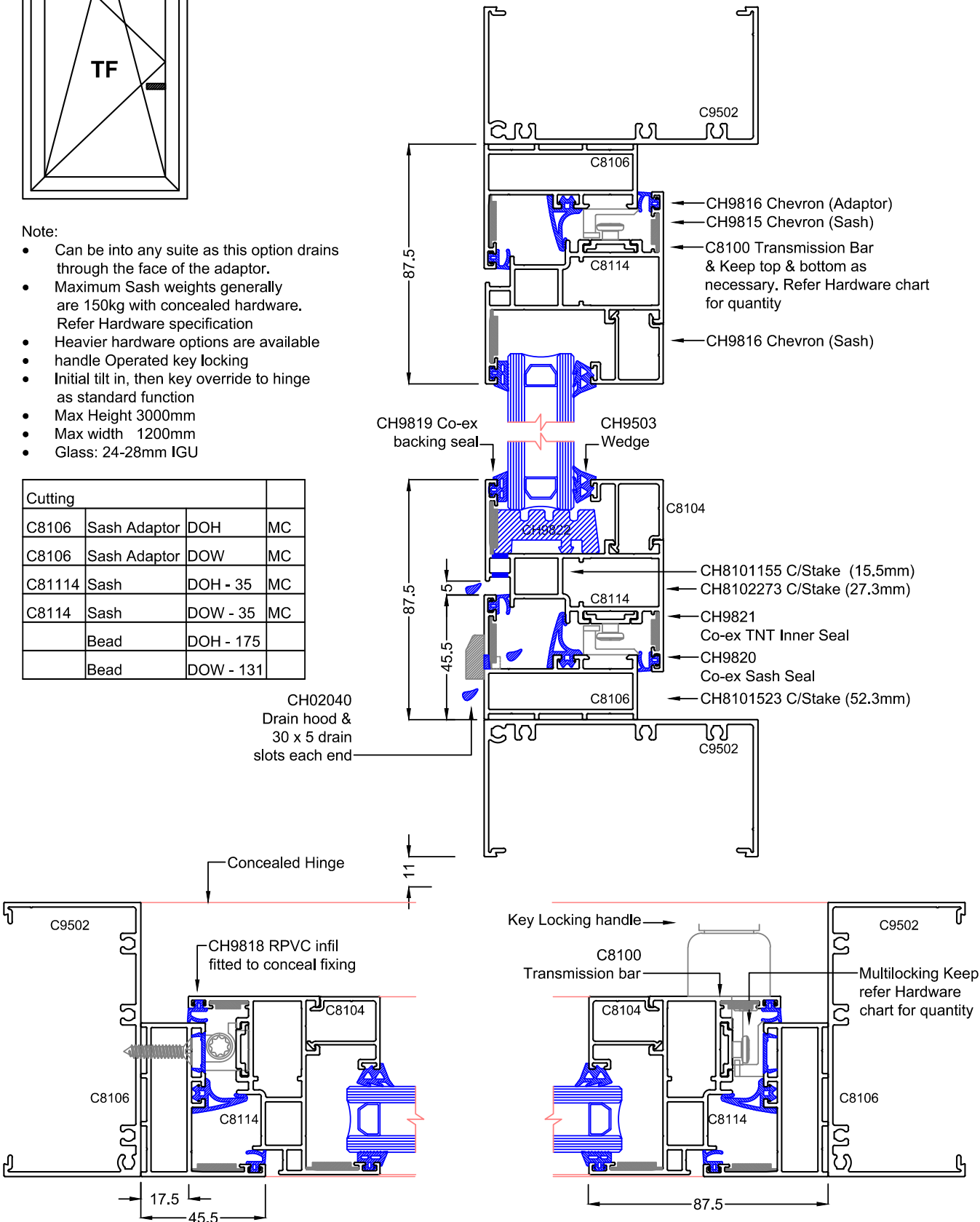
A diagram of a rectangular frame with a diagonal line from the top-left corner to the bottom-right corner. A triangle is formed by the top-left corner, the top-right corner, and a point on the diagonal. The triangle is labeled 'TF'.

Note:

- Can be into any suite as this option drains through the face of the adaptor.
- Maximum Sash weights generally are 150kg with concealed hardware. Refer Hardware specification
- Heavier hardware options are available
- handle Operated key locking
- Initial tilt in, then key override to hinge as standard function
- Max Height 3000mm
- Max width 1200mm
- Glass: 24-28mm IGU

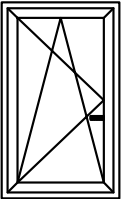
Cutting			
C8106	Sash Adaptor	DOH	MC
C8106	Sash Adaptor	DOW	MC
C81114	Sash	DOH - 35	MC
C8114	Sash	DOW - 35	MC
	Bead	DOH - 175	
	Bead	DOW - 131	

C8106 adaptor is dimensionally identical to C8110 adaptor & can be fitted into any framing system.



Max™ TILT & TURN SASHES
Max Framing System: MTNT - 6

Tilt First Left Hand Hardware Packages

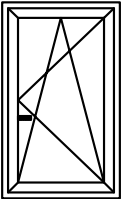


As viewed from Outside
Hardware is variable dependant on Sash height, width, weight, hand & handle finish.
Select: Kit + Strike Package + Handle for a complete bill of materials

CHTF1L	Designo Tilt First Kit #1 LH Sash Width 500 - 735mm up to 100kg	
Ref #	Description	Qty
1	Designo TF Horizontal T&T Striker (V.01)	1
2	Designo TF Tilt Lock Bolt	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Designo Sash Stay 500R	1
7	Designo Tilt First Stay Guide 500	1
8	Centre Lock Corner Drive	1
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable (Refer strike table)	varies
13	Striker (Refer strike table for additional quantities)	2

CHTF2L	Designo Tilt First Kit #2 LH Sash Width 736 - 1300mm up to 100kg	
Ref #	Description	Qty
1	Designo TF Horizontal T&T Striker (V.01)	1
2	Designo TF Tilt Lock Bolt	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Designo Sash Stay 735R	1
7	Designo Tilt First Stay Guide 735	1
8	Centre Lock Corner Drive	1
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable (Refer strike table)	varies
13	Striker (Refer strike table for additional quantities)	2

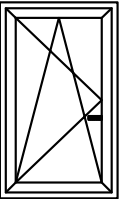
Tilt First Right Hand Hardware Packages



CHTF1R	Designo Tilt First Kit #1 RH Sash Width 500 - 735mm up to 100kg	
Ref #	Description	Qty
1	Designo TF Horizontal T&T Striker (V.01)	1
2	Designo TF Tilt Lock Bolt	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Designo Sash Stay 500L	1
7	Designo Tilt First Stay Guide 500	1
8	Centre Lock Corner Drive	1
9	Designo Corner Hinge L	1
10	Designo Pivot Rest L	1
11	Turn Restrictor	1
12	Locking Cam Insertable (Refer strike table)	varies
13	Striker (Refer strike table for additional quantities)	2

CHTF2R	Designo Tilt First Kit #2 RH Sash Width 736 - 1300mm up to 100kg	
Ref #	Description	Qty
1	Designo TF Horizontal T&T Striker (V.01)	1
2	Designo TF Tilt Lock Bolt	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Designo Sash Stay 735L	1
7	Designo Tilt First Stay Guide 735	1
8	Centre Lock Corner Drive	1
9	Designo Corner Hinge L	1
10	Designo Pivot Rest L	1
11	Turn Restrictor	1
12	Locking Cam Insertable (Refer strike table)	varies
13	Striker (Refer strike table for additional quantities)	2

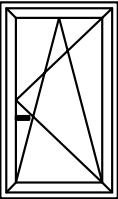
Tilt First Left Hand Hardware Packages



Hardware is variable dependant on Sash height, width, weight, hand & handle finish.
Select: Kit + Strike Package + Handle for a complete bill of materials

CHTF3L	Designo Tilt First Kit #3 LH Sash Width 1301 - 1600mm up to 100kg	
Ref #	Description	Qty
1	Designo TF Horizontal T&T Striker (V.01)	1
2	Designo TF Tilt Lock Bolt	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Designo Sash Stay 735R	1
7	Designo Tilt First Stay Guide 735	1
8	Centre Lock Corner Drive	1
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable not incl (Refer strike table)	
13	Striker (Refer strike table for additional quantities)	2
14	Designo TF Additional Scissor Stay (V.01)	1

Tilt First Right Hand Hardware Packages



CHTF3R	Designo Tilt First Kit #3 RH Sash Width 1301 - 1600mm up to 100kg	
Ref #	Description	Qty
1	Designo TF Horizontal T&T Striker (V.01)	1
2	Designo TF Tilt Lock Bolt	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Designo Sash Stay 735L	1
7	Designo Tilt First Stay Guide 735	1
8	Centre Lock Corner Drive	1
9	Designo Corner Hinge L	1
10	Designo Pivot Rest L	1
11	Turn Restrictor	1
12	Locking Cam Insertable not incl (Refer strike table)	
13	Striker (Refer strike table for additional quantities)	2
14	Designo TF Additional Scissor Stay (V.01)	1

13

CH9834
Eurogroove Striker Package
includes Striker & Locking Cam

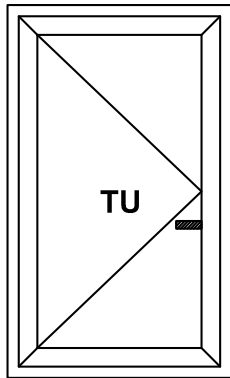
CH9834 Striker Package: Quantity varies by Sash Height & Width					
Height					
<700mm					
700 - 1600mm	0	2W	2	2H, 2W	4
1601 - 2000mm	2H	2	2H, 2W	4	2H, 4W
2001 - 2400mm	4H	4	4H, 2W	6	4H, 4W
1601 - 2400mm	6H	6	6H, 2W	8	6H, 4W
2400 - 3000mm	8H	8	8H, 2W	10	8H, 4W
Width	600 - 1000mm	1001 - 1300mm	1301 - 1600mm		

Example for Ordering
1800 x 1200 Left Hand, white Handle
CHTF2L Kit + CH9830WHT Handle + 4 x CH9834 strike

CH9830
Tilt First Handle key locking
Sold Separate to kits

Rotoline Tilt First Handle with spindle		
Ref #	Code	Finish
9	CH9830SVR	Silver Powdercoat
9	CH9830WHT	White Powdercoat
9	CH9830TSVR	Titanium Silver Plated

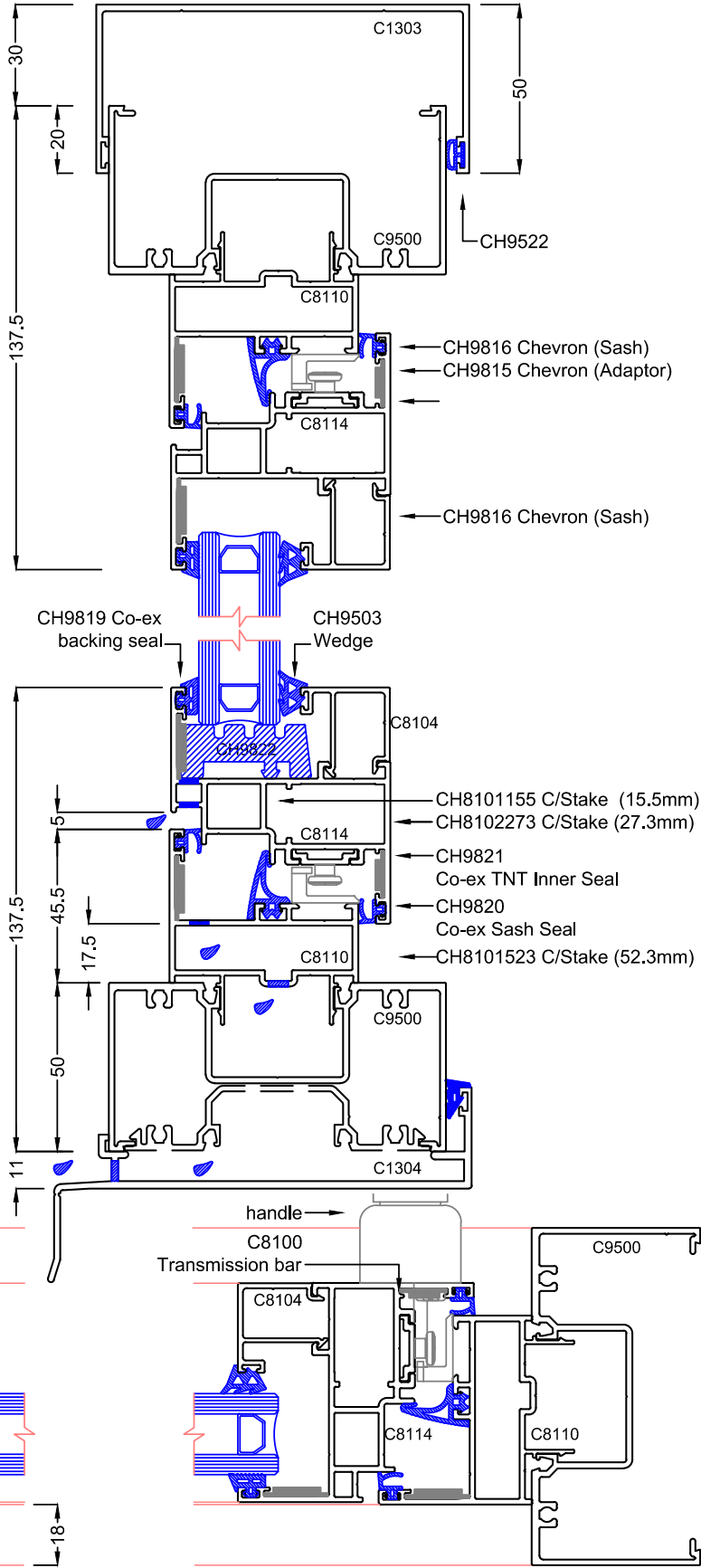
Max[™] TILT & TURN SASHES
Max Framing System: MTNT - 7
Turn Only Sash



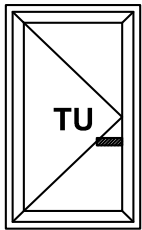
- Note:
- This is not designed as a ventilation product, used solely for occasional access
 - Maximum Sash weights generally are 150kg with concealed hardware. Refer Hardware specification
 - Heavier hardware options are available
 - Handle Operated key locking
 - Turn Only hinges in as standard function
 - Max Height 3000mm
 - Max width 1300mm
 - Generally suited to 24-38mm IGU

Cutting			
C8110	Sash Adaptor	DOH + 25	MC
C8110	Sash Adaptor	DOW + 25	MC
C81114	Sash	DOH - 35	MC
C8114	Sash	DOW - 35	MC
	Bead	DOH - 175	
	Bead	DOW - 131	

Turn Only Sash in 100 CentreGlaze

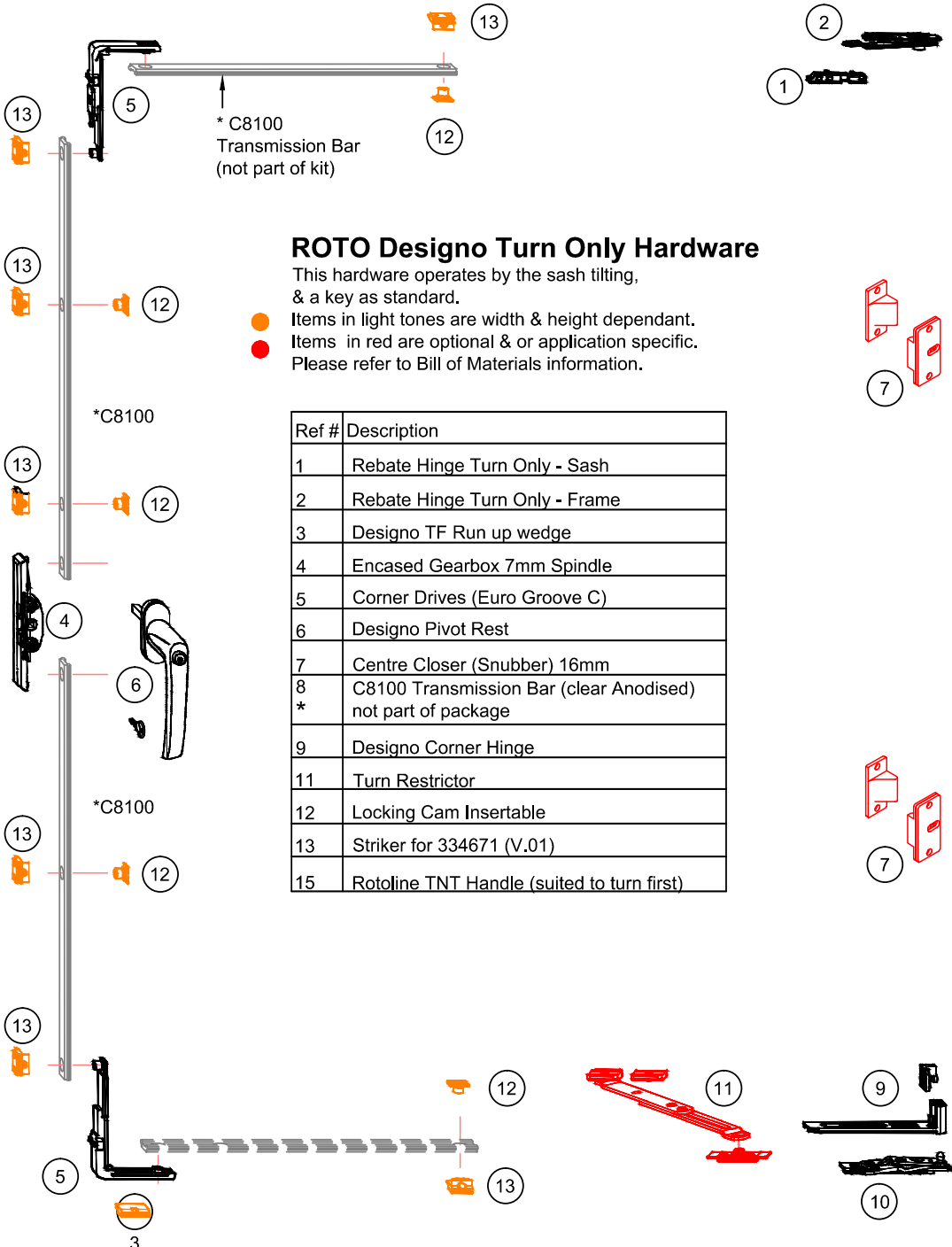


Turn Only Hardware ID



Windows as viewed from outside.
The hardware schematic view below
however is viewed from Inside.

- This is not designed as a ventilation product, used solely for occasional access
- Maximum Sash weights generally are 150kg with concealed hardware. Refer Hardware specification
- Heavier hardware options are available
- Handle Operated key locking
- Tilt only function
- Max Height 3000mm
- Max width 1300mm
- Generally suited to 24-38mm IGU

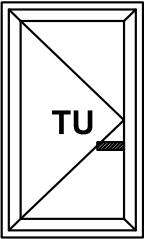


ROTO Designo Turn Only Hardware

This hardware operates by the sash tilting,
& a key as standard.
Items in light tones are width & height dependant,
Items in red are optional & or application specific.
Please refer to Bill of Materials information.

Ref #	Description
1	Rebate Hinge Turn Only - Sash
2	Rebate Hinge Turn Only - Frame
3	Designo TF Run up wedge
4	Encased Gearbox 7mm Spindle
5	Corner Drives (Euro Groove C)
6	Designo Pivot Rest
7	Centre Closer (Snubber) 16mm
8	C8100 Transmission Bar (clear Anodised) * not part of package
9	Designo Corner Hinge
11	Turn Restrictor
12	Locking Cam Insertable
13	Striker for 334671 (V.01)
15	Rotoline TNT Handle (suited to turn first)

Max™ TILT & TURN SASHES
Max Framing System: MTNT - 8
Turn Only Left Hand Hardware Packages



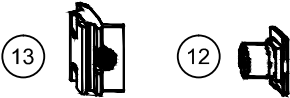
Windows as viewed from outside.
The hardware schematic view below
however is viewed from Inside.

CHTO1L	Designo Tilt Only Kit #1 LH Sash Height 500 - 1600mm up to 100kg Sash width must not exceed $\frac{2}{3}$ of sash height	
Ref #	Description	Qty
1	Rebate Hinge Turn Only - Sash	1
2	Rebate Hinge Turn Only - Frame	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Rotoline TNT Handle (not in kit)	-
7	Centre Closer (Snubber) 16mm	-
8	Transmission Bar (not in kit)	-
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable (Refer strike table)	varies
13	Striker (Refer strike table for additional quantities)	2

CHTO3L	Designo Tilt Only Kit #3 LH Sash Height 2101 - 3000mm up to 100kg Sash Width must not exceed 1300mm	
Ref #	Description	Qty
1	Rebate Hinge Turn Only - Sash	1
2	Rebate Hinge Turn Only - Frame	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Rotoline TNT Handle (not in kit)	-
7	Centre Closer (Snubber) 16mm	3
8	Transmission Bar (not in kit)	-
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable not incl (Refer strike table)	
13	Striker (Refer strike table for additional quantities)	2

CHTO3L	Designo Tilt Only Kit #3 LH Sash Height 1601 - 2100mm up to 100kg Sash Width must not exceed $\frac{2}{3}$ of sash width & <1300mm	
Ref #	Description	Qty
1	Rebate Hinge Turn Only - Sash	1
2	Rebate Hinge Turn Only - Frame	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Rotoline TNT Handle (not in kit)	-
7	Centre Closer (Snubber) 16mm	1
8	Transmission Bar (not in kit)	-
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable not incl (Refer strike table)	
13	Striker (Refer strike table for additional quantities)	2

Striker Packages

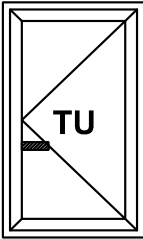


CH9834
Eurogroove Striker Package
includes Striker & Locking Cam

CH9834 Striker Package: Quantity varies by Sash Height & Width					
Height					
<700mm					
700 - 1600mm	0	2W	2	2H, 2W	4
1601 - 2000mm	2H	2	2H, 2W	4	2H, 4W 6
2001 - 2400mm	4H	4	4H, 2W	6	4H, 4W 8
1601 - 2400mm	6H	6	6H, 2W	8	6H, 4W 10
2400 - 3000mm	8H	8	8H, 2W	10	8H, 4W 12
Width	600 - 1000mm	1001 - 1300mm	1301 - 1600mm		

Example for Ordering
1800 x 1200 Left Hand, white Handle
CHTF2L Kit + CH9830WHT Handle + 4 x CH9834 strike

Turn Only Right Hand Hardware Packages



Windows as viewed from outside.
The hardware schematic view below
however is viewed from Inside.

CHTO1R	Designo Tilt Only Kit #1 RH Sash Height 500 - 1600mm up to 100kg Sash width must not exceed $\frac{2}{3}$ of sash height	
Ref #	Description	Qty
1	Rebate Hinge Turn Only - Sash	1
2	Rebate Hinge Turn Only - Frame	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Rotoline TNT Handle (not in kit)	-
7	Centre Closer (Snubber) 16mm	-
8	Transmission Bar (not in kit)	-
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable (Refer strike table)	varies
13	Striker (Refer strike table for additional quantities)	2

CHTO3R	Designo Tilt Only Kit #3 RH Sash Height 2101 - 3000mm up to 100kg Sash Width must not exceed 1300mm	
Ref #	Description	Qty
1	Rebate Hinge Turn Only - Sash	1
2	Rebate Hinge Turn Only - Frame	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Rotoline TNT Handle (not in kit)	-
7	Centre Closer (Snubber) 16mm	3
8	Transmission Bar (not in kit)	-
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable not incl (Refer strike table)	
13	Striker (Refer strike table for additional quantities)	2

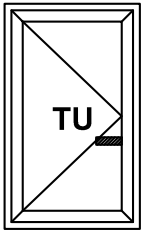
CHTO3R	Designo Tilt Only Kit #3 RH Sash Height 1601 - 2100mm up to 100kg Sash Width must not exceed $\frac{2}{3}$ of sash width & <1300mm	
Ref #	Description	Qty
1	Rebate Hinge Turn Only - Sash	1
2	Rebate Hinge Turn Only - Frame	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Rotoline TNT Handle (not in kit)	-
7	Centre Closer (Snubber) 16mm	1
8	Transmission Bar (not in kit)	-
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable not incl (Refer strike table)	
13	Striker (Refer strike table for additional quantities)	2



CH9831
Tilt & Turn (Turn First) Handle
key locking
Sold Separate to kits

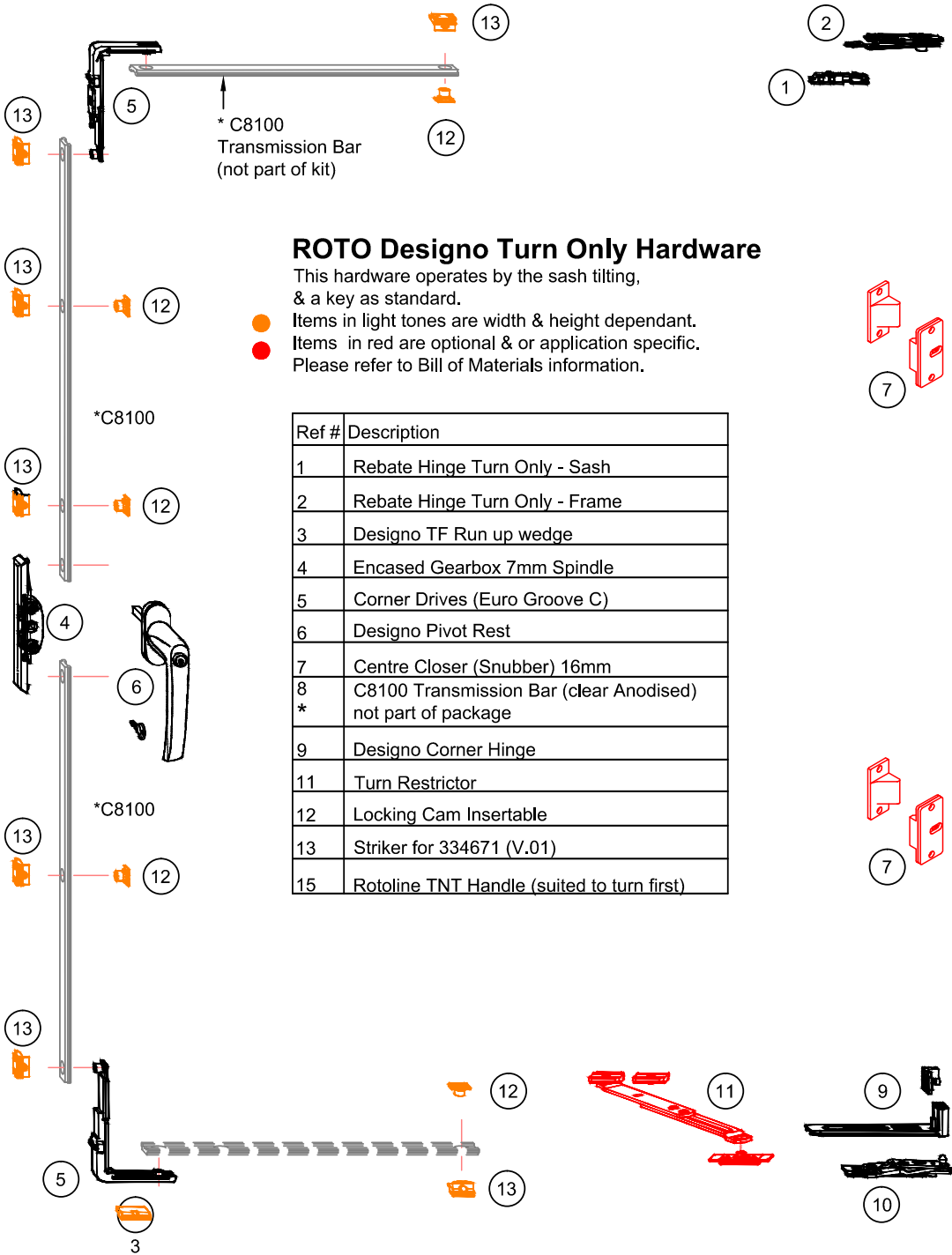
Rotoline Tilt & Turn Handle with spindle		
Ref #	Code	Finish
6	CH9831SVR	Silver Powdercoat
6	CH9831WHT	White Powdercoat
6	CH9831TSVR	Titanium Silver Plated

Max™ TILT & TURN SASHES
Max Framing System: MTNT - 9
Turn Only Hardware ID

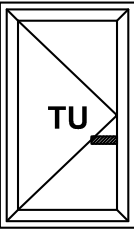


Windows as viewed from outside.
The hardware schematic view below
however is viewed from Inside.

- Note:
- This is not designed as a ventilation product, used solely for occasional access
 - Maximum Sash weights generally are 150kg with concealed hardware. Refer Hardware specification
 - Heavier hardware options are available
 - Handle Operated key locking
 - Tilt only function
 - Max Height 3000mm
 - Max width 1300mm
 - Generally suited to 24-38mm IGU



Turn Only Left Hand Hardware Packages



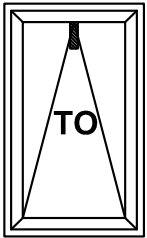
Windows as viewed from outside.
The hardware schematic view below
however is viewed from Inside.

CHTO1L	Designo Tilt Only Kit #1 LH Sash Height 500 - 1600mm up to 100kg Sash width must not exceed $\frac{2}{3}$ of sash height	
Ref #	Description	Qty
1	Rebate Hinge Turn Only - Sash	1
2	Rebate Hinge Turn Only - Frame	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Rotoline TNT Handle (not in kit)	-
7	Centre Closer (Snubber) 16mm	-
8	Transmission Bar (not in kit)	-
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable (Refer strike table)	varies
13	Striker (Refer strike table for additional quantities)	2

CHTO3L	Designo Tilt Only Kit #3 LH Sash Height 2101 - 3000mm up to 100kg Sash Width must not exceed 1300mm	
Ref #	Description	Qty
1	Rebate Hinge Turn Only - Sash	1
2	Rebate Hinge Turn Only - Frame	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Rotoline TNT Handle (not in kit)	-
7	Centre Closer (Snubber) 16mm	3
8	Transmission Bar (not in kit)	-
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable not incl (Refer strike table)	
13	Striker (Refer strike table for additional quantities)	2

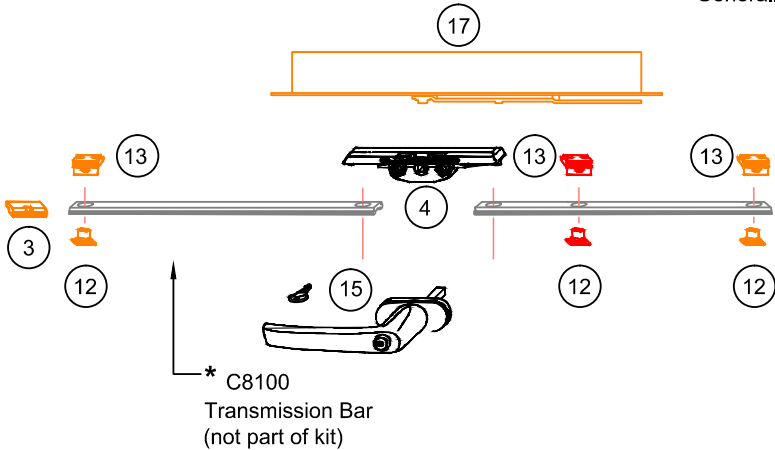
CHTO3L	Designo Tilt Only Kit #3 LH Sash Height 1601 - 2100mm up to 100kg Sash Width must not exceed $\frac{2}{3}$ of sash width & <1300mm	
Ref #	Description	Qty
1	Rebate Hinge Turn Only - Sash	1
2	Rebate Hinge Turn Only - Frame	1
3	Designo TF Run up wedge (V.01)	1
4	Encased Gearbox 7mm Spindle	1
5	Corner Drives (Euro Groove C)	2
6	Rotoline TNT Handle (not in kit)	-
7	Centre Closer (Snubber) 16mm	1
8	Transmission Bar (not in kit)	-
9	Designo Corner Hinge R	1
10	Designo Pivot Rest R	1
11	Turn Restrictor	1
12	Locking Cam Insertable not incl (Refer strike table)	
13	Striker (Refer strike table for additional quantities)	2

Max™ TILT & TURN SASHES
Max Framing System: MTNT - 10
Tilt Only Hardware (Handle on Top)



Windows as viewed from outside.
The hardware schematic view below
however is viewed from Inside.
Note that a handle is usually fitted at the
top for this product.
Tilt only windows are often used as highlights
& can be fitted with Roto E-Tech motorised
operators (concealed in head).

- Note:
- Maximum Sash weights generally
are 100kg with concealed hardware.
Refer Hardware specification
 - Tilt in only function
 - Handle Top mounted, key locking
 - Optional E-Tech Motorised operator
 - Sash Height 500mm min, 1300mm max
 - Sash Width 520mm min, 1600mm max
 - Generally suited to 24-38mm IGU

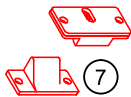


**ROTO Designo Tilt Only Hardware
(Handle at top)**

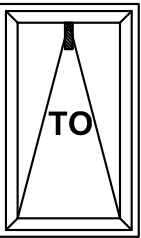
This hardware operates by the sash tilting inward,
with a key as standard.

- Items in light tones are width dependant.
- Items in red are optional & or application specific.
Please refer to Bill of Materials information.

Ref #	Description
1	Rebate Hinge Tilt Only (Frame)
2	Rebate Hinge Tilt Only (Sash)
3	Designo TF Run up wedge
4	Encased Gearbox 7mm Spindle
5	Stay Arm Tilt Only (Frame & Sash)
7	Centre Closer (Snubber)
12	Locking Cam Insertable
13	Striker for 334671 (V.01)
15	Rotoline Window handle (not part of package)
16*	C8100 Transmission Bar (clear Anodised) not part of package
17	Roto E-Tech Motorised Operator (not part of package)



Tilt Only Hardware Packages

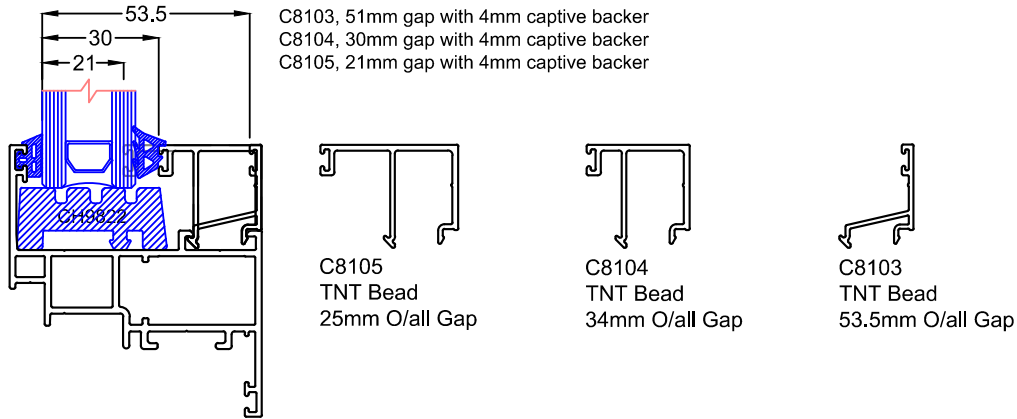


Hardware is variable dependant on Sash height,
width, weight, & handle finish.
The handle is generally fitted to the top of the
sash which does not impact on hardware
selection.
Select: Kit + Strike Package + Handle for a
complete bill of materials

CHALTILT	Designo Tilt Only (Handle on Top) Sash Width 500 - 1600mm up to 100kg	
Ref #	Description	Qty
1	Rebate Hinge Tilt Only (Frame)	Pair
2	Rebate Hinge Tilt Only (Sash)	2
3	Designo TF Run up wedge	1
5	Stay Arm Tilt Only (Frame & Sash)	2
5	Locking Cam Insertable	2
13	Striker for 33671 (V.01)	2
15	Rotoline Window handle (not part of package)	
17	E-Tech Motorised unit (not part of package)	

Sash Glazing Details

Principally designed for double glazed as an unbroken
system, C8105 bead allows some scope for single glazing.



Max Tilt & Turn Sash	Glass thickness	Gap (excl backer)	Bead	CH9819 backer Thickness	Glazing wedge	Gap
	18mm	21mm	C8105	4mm	CH9500	3mm
	24mm	30mm	C8104	4mm	CH9501	4mm
	28mm	30mm	C8104	4mm	CH9500	3mm
	47mm	53.5mm	C8103	4mm	CH9503	7mm
	50mm	53.5mm	C8103	4mm	CH9501	4mm

Glazing Wedges



CH9819
4mm Captive seal



CH9500
3mm wedge PVC



CH9501
4mm wedge PVC



CH9502
5mm wedge PVC

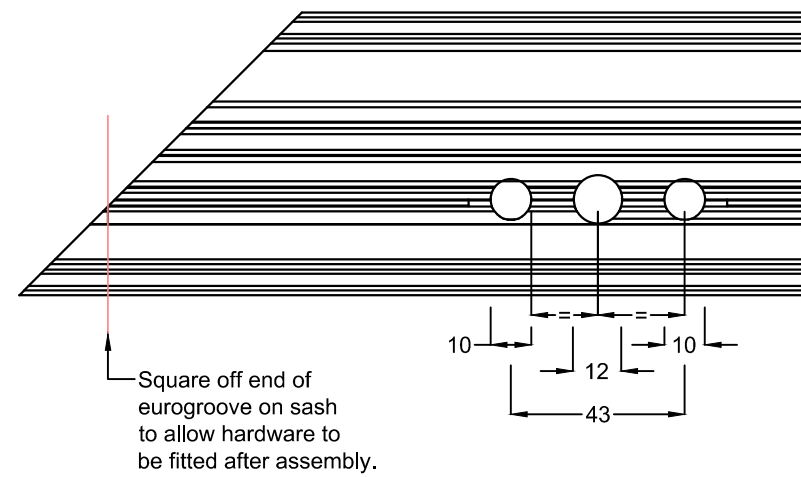
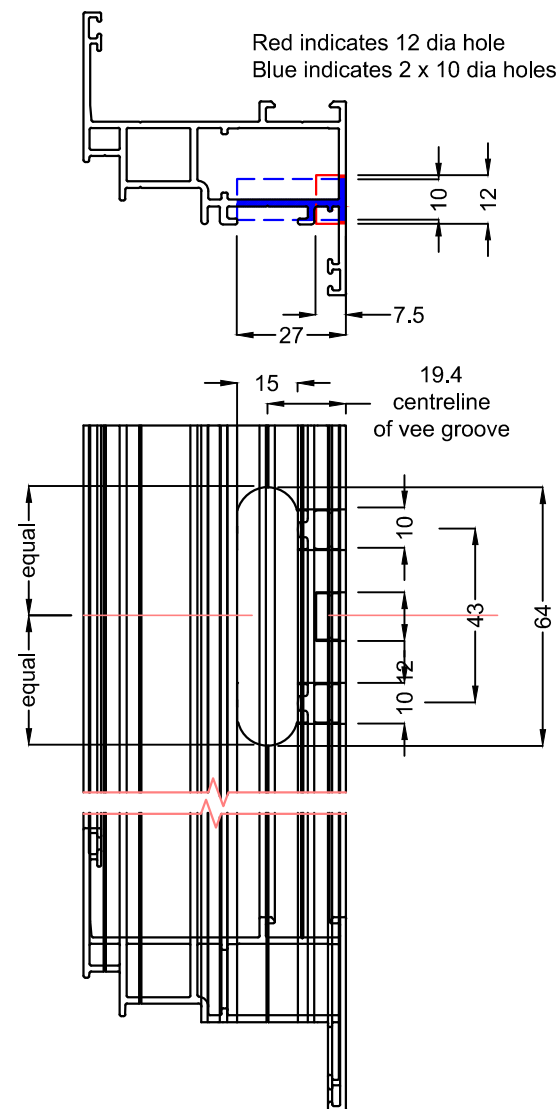


CH9503
7mm wedge PVC

Max[™] TILT & TURN SASHES

Max Framing System: MTNT - 10

Sash Machining



Transmission Bar Machining

